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NOTICE OF ALLOWANCE AND FEE(S) DUE

30671

7590

01/27/2010

DITTHAVONG MORI & STEINER, P.C. 918 Prince Street Alexandria, VA 22314 EXAMINER

CHU, JOHN S Y

ART UNIT PAPER NUMBER

1795 DATE MAILED: 01/27/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,117	07/31/2007	Kouichi Fujiwara	01115_1010	2910

TITLE OF INVENTION: ACRYLIC POLYMER AND RADIATION-SENSITIVE RESIN COMPOSITION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/27/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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			[(Depositor's name)
								(Signature)
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APPLICATION NO.	PLICATION NO. FILING DATE		FIRST NAMED INVENT	OR		ATTORNEY DOCKET NO.		CONFIRMATION NO.
10/567,117	07/31/2007	•	Kouichi Fujiwara		<u>'</u>		01115_1010	2910
TITLE OF INVENTION	: ACRYLIC POLYMER	R AND RADIATION-S	ENSITIVE RESIN COM	IPOS:	ITION			
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nonprovisional	NO	\$1510	\$300		\$0	\$1810		04/27/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
CHU, JC	OHN S Y	1795	430-270100	_				
1. Change of correspondence address or indication of "Fee Address" (3'			2. For printing on the patent front page, list					
CFR 1.363). Change of corresp	ondence address (or Cha 3/122) attached.	nge of Correspondence	(1) the names of up or agents OR, altern			attorn	ieys ¹	
_			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	r type))			
PLEASE NOTE: Unl	less an assignee is ident h in 37 CFR 3.11. Com	ified below, no assigne pletion of this form is N	e data will appear on th OT a substitute for filing	e pate	ent. If an assigne	e is ic	lentified below, the do	ocument has been filed for
(A) NAME OF ASSI	•		(B) RESIDENCE: (C.		•	TNUC	RY)	
Please check the appropr	iate assignee category or	categories (will not be	printed on the patent):	□ I ₁	ndividual 🖵 Coi	rporati	on or other private gro	up entity 🗖 Government
4a. The following fee(s)	are submitted:		4b. Payment of Fee(s): (I	Please	e first reapply an	v prev	iously paid issue fee s	hown above)
☐ Issue Fee			A check is enclose	ed.				,
☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
Advance Order -	# of Copies		overpayment, to D	eposit	t Account Number	r	equited fee(s), any def (enclose ar	extra copy of this form).
5. Change in Entity Sta a. Applicant claim	tus (from status indicated s SMALL ENTITY state	*	☐ b. Applicant is no	longe	er claiming SMAL	L EN	ΓΙΤΥ status. See 37 CF	FR 1.27(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requestroords of the United Sta	uired) will not be accep	ted from anyone other the	an the	e applicant; a regis	tered a	nttorney or agent; or th	e assignee or other party in
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Authorized Signature								
Typed or printed name This collection of information is required by 37 CFR 1.311. The information								
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	EFR 1.311. The informa U.S.C. 122 and 37 CF. USPTO. Time will varden, should be sent to O NOT SEND FEES OF	tion is required to obtain R 1.14. This collection is ry depending upon the ir the Chief Information Of R COMPLETED FORMS	or ret estin divid fficer, TO	ain a benefit by th nated to take 12 m lual case. Any cor U.S. Patent and T THIS ADDRESS.	e publ ninutes nment Traden SENI	ic which is to file (and to complete, including s on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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918 Prince Street		ART UNIT	PAPER NUMBER		
Alexandria, VA 22314			1795		
			DATE MAILED: 01/27/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 63 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 63 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	 10/567,117	FUJIWARA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JOHN S. CHU	1795	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS	
2. ☑ The allowed claim(s) is/are <u>1-4 and 6-8</u> .			
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicat	ion No	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached E>	(AMINER'S AMENDMENT or NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Revie	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1)	.84(c)) should be written on	the drawings in the front (not the back) of	
each sheet. Replacement sheet(s) should be labeled as such in t 6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	FERIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview 5 Paper No 7. ☐ Examiner'	nformal Patent Application Summary (PTO-413), JMail Date s Amendment/Comment s Statement of Reasons for Allowance	

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Art Unit: 1795

REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: The claimed invention is drawn to the following:
 - 1. (Currently Amended) An acrylic polymer comprising a recurring unit (i) represented by the following formula (1), a recurring unit (ii) represented by the following formula (2), and an acid-labile group-containing recurring unit (iii) which contains at least one unit selected from a recurring unit represented by the following formula (3) and formula (4),

wherein, in the formulas (1) to (4), R, R', R', and R'' individually represent a hydrogen atom, methyl group, or trifluoromethyl group, in the formula (1), R¹ represents a hydrogen atom, linear or branched alkyl group having 1-4 carbon atoms, linear or branched alkoxyl group having 1-4 carbon atoms, or linear or branched fluoroalkyl group having 1-4carbon atoms, in the formula (2), X represents a polyalicyclic hydrocarbon group consisting only of carbon and hydrogen and having 7-20 earbon atoms which is one group selected from groups represented by the following formulas (2a) to (21):

2. The amendment to claim 1 now includes the specific alicyclic groups as defined for X seen above. These groups are seen as non-acid labile and do not have hydroxyl or other hydrophilic groups. The prior art reference to NISHI et al disclose acid labile alicyclic groups, while the SATO et al disclose groups having hydroxyl groups attached to the polyalicyclic groups in the terpolymer.

3. Accordingly, claims 1-4, 6-8 are seen as allowable and passed to issue.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Cynthia Kelly, can be reached on (571) 272-1526

The fax phone number for the USPTO is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR

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Art Unit: 1795

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/John S. Chu/ Primary Examiner, Art Unit 1795

J.Chu January 18, 2010